WEST Search History

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DATE: Monday, September 11, 2006

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,EPAB; PLUR=YES; OP=ADJ		
☐	L47	L46 not @py>1999	21
☐	L46	l45 and (metal or radiometal or radionuclide)	40
☐	L45	L44 and l14	48
☐	L44	l41 not @ay>1999	50
☐	L43	L42 and l41	0
☐	L42	(alberto or hafliger).in.	6972
☐	L41	l39 and l7	63
☐	L40	(530/391.1,391.3,391.5,391.7,391.9)![CCLS]	2453
☐	L39	(424/179.1,181.1,182.1)![CCLS]	482
☐	L38	6844425.pn.	1
☐	L37	L36 and l7	13
☐	L36	gamma SAME L35	40
☐	L35	90Y	475
☐	L34	l32 and b174$	1
☐	L33	l32 and b17	0
☐	L32	(5730968).pn.	1
☐	L31	(4837169 or 4859777).pn.	2
☐	L30	L29 not @ay>1998	7
☐	L29	L28 and radio$	35
☐	L28	L27 and L14	52
☐	L27	L25 and L24	78
☐	L26	L25 and L4	6911
☐	L25	L3.ab.	41880
☐	L24	L4.clm.	7811
☐	L23	L22 and L14	47
☐	L22	L21 not @py>1999	51
☐	L21	L20 and metal	143
☐	L20	L19 and radio$	203
☐	L19	L12 and L3	404
☐	L18	L17.ab.	1857

☐	L17	benzimidazole	26369
☐	L16	L15 and radioactive	7
☐	L15	L14 and L13	8
☐	L14	cancer$ or tumor$ or neoplas$	199336
☐	L13	L12 and L11	8
☐	L12	L4.ab.	3344
☐	L11	metal and L10	264
☐	L10	L9 not @py>1999	373
☐	L9	L8 and L1	6564
☐	L8	L7 and L6 and L2	31875
☐	L7	porphyrin or ellipticine or phenantroline or carbazole or benzimidazole or tetracycline	87046
☐	L6	conjugat$ or link$ or coupl$ or join$	3007357
☐	L5	L4 and L3	30643
☐	L4	porphyrin or ellipticine or phenantroline or carboazole or benzimidazole or tetracycline	71805
☐	L3	somatostatin$ or neurotensin$ or bombesin$ or antibod$ or penetratine$	178721
☐	L2	somatostatin or neurotensin or bombesin or antibod$ or penetratine$	178700
☐	L1	intercalat$	27483

END OF SEARCH HISTORY

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 NEWS 11  JUN 28  Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 12  JUl 11  CHEMSAFE reloaded and enhanced
 NEWS 13  JUl 14  FSTA enhanced with Japanese patents
 NEWS 14  JUl 19  Coverage of Research Disclosure reinstated in DWPI
 NEWS 15  AUG 09  INSPEC enhanced with 1898-1968 archive
 NEWS 16  AUG 28  ADISCTI Reloaded and Enhanced
 NEWS 17  AUG 30  CA(SM)/CAplus(SM) Austrian patent law changes

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8
 NEWS X25      X.25 communication option no longer available

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FILE 'HOME' ENTERED AT 08:40:24 ON 11 SEP 2006

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'CAPLUS' ENTERED AT 08:40:57 ON 11 SEP 2006
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FILE COVERS 1907 - 11 Sep 2006  VOL 145 ISS 12
FILE LAST UPDATED: 10 Sep 2006  (20060910/ED)

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=> s us 20050019254/pn
L1            1 US 20050019254/PN
                (US2005019254/PN)

=> sel rn
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E1 THROUGH E39 ASSIGNED

=> file reg
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 2.49 | 2.70

FILE 'REGISTRY' ENTERED AT 08:41:19 ON 11 SEP 2006
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 10 SEP 2006 HIGHEST RN 906318-57-8
DICTIONARY FILE UPDATES: 10 SEP 2006 HIGHEST RN 906318-57-8

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http://www.cas.org/ONLINE/UG/regprops.html

=> s e1-e39
1 1001-53-2/BI
(1001-53-2/RN)
1 105-36-2/BI
(105-36-2/RN)
1 111-40-0/BI
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1 112-24-3/BI
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1 14133-76-7/BI
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(91-63-4/RN)
1 98-88-4/BI
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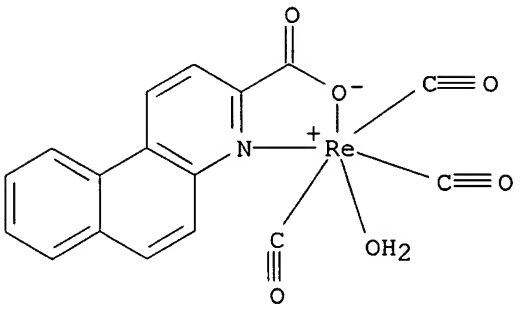
=> d 1-39

L2 ANSWER 1 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289705-41-5 REGISTRY
ED Entered STN: 20 Sep 2000

CN Rhenium, aqua(benzo[f]quinoline-3-carboxylato-κN4,κO3)tricarbonyl-, (OC-6-44)- (9CI) (CA INDEX NAME)
MF C17 H10 N O6 Re
CI CCS
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

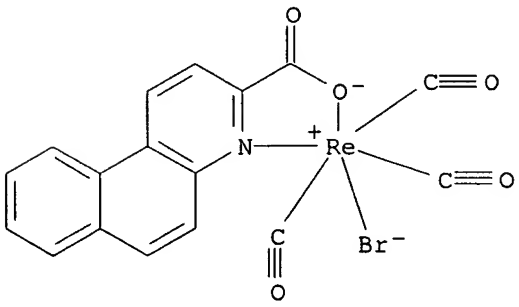


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289705-40-4 REGISTRY
ED Entered STN: 20 Sep 2000
CN Ethanaminium, N,N,N-triethyl-, (OC-6-44)-(benzo[f]quinoline-3-carboxylato-κN4,κO3)bromotricarbonylrhenate(1-) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Rhenate(1-), (benzo[f]quinoline-3-carboxylato-κN4,κO3)bromotricarbonyl-, (OC-6-44)-, N,N,N-triethylethanaminium (9CI)
MF C17 H8 Br N O5 Re . C8 H20 N
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

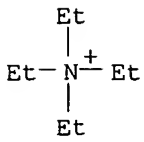
CM 1

CRN 289705-39-1
CMF C17 H8 Br N O5 Re
CCI CCS



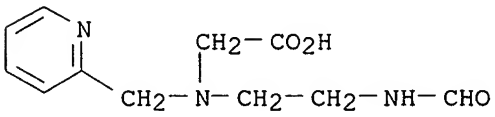
CM 2

CRN 66-40-0
CMF C8 H20 N



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-29-6 REGISTRY
ED Entered STN: 19 Sep 2000
CN Glycine, N-[2-(formylamino)ethyl]-N-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H15 N3 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



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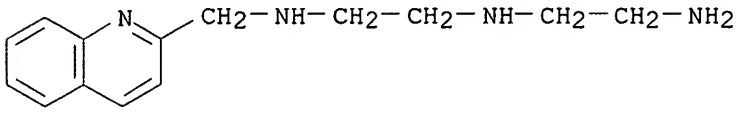
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-28-5 REGISTRY
ED Entered STN: 19 Sep 2000
CN 1,2-Ethanediamine, N-(2-aminoethyl)-N'-(2-quinolinylmethyl)-, hydrochloride (9CI) (CA INDEX NAME)
MF C14 H20 N4 . x Cl H
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (289661-24-1)

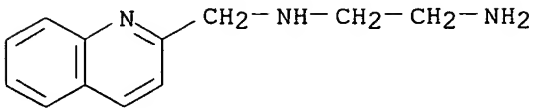


●x HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-27-4 REGISTRY
ED Entered STN: 19 Sep 2000
CN 1,2-Ethanediamine, N-(2-quinolinylmethyl)-, hydrochloride (9CI) (CA INDEX NAME)
MF C12 H15 N3 . x Cl H
SR CA

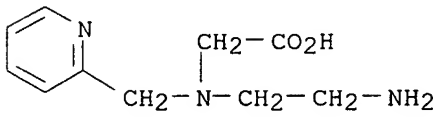
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (289661-21-8)



●x HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

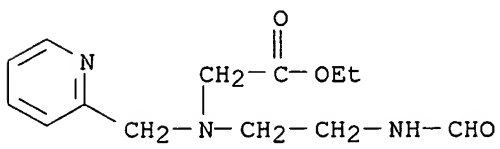
L2 ANSWER 6 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-26-3 REGISTRY
ED Entered STN: 19 Sep 2000
CN Glycine, N-(2-aminoethyl)-N-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H15 N3 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-25-2 REGISTRY
ED Entered STN: 19 Sep 2000
CN Glycine, N-[2-(formylamino)ethyl]-N-(2-pyridinylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H19 N3 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



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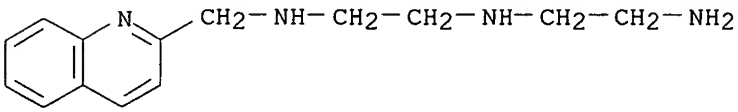
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN

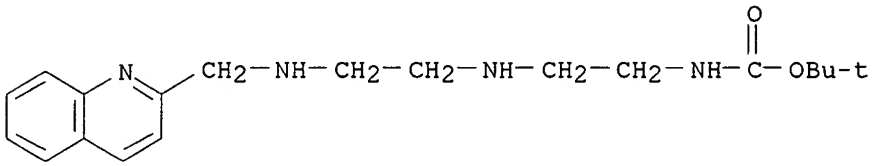
RN 289661-24-1 REGISTRY
ED Entered STN: 19 Sep 2000
CN 1,2-Ethanediamine, N-(2-aminoethyl)-N'-(2-quinolinylmethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H20 N4
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

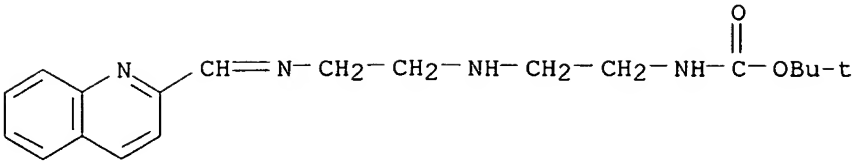
L2 ANSWER 9 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-23-0 REGISTRY
ED Entered STN: 19 Sep 2000
CN Carbamic acid, [2-[[2-[(2-quinolinylmethyl)amino]ethyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H28 N4 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

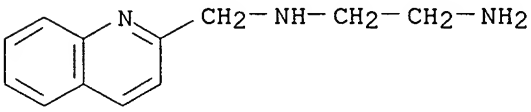
L2 ANSWER 10 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-22-9 REGISTRY
ED Entered STN: 19 Sep 2000
CN Carbamic acid, [2-[[2-[(2-quinolinylmethylene)amino]ethyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H26 N4 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

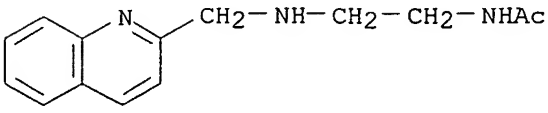
L2 ANSWER 11 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-21-8 REGISTRY
ED Entered STN: 19 Sep 2000
CN 1,2-Ethanediamine, N-(2-quinolinylmethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H15 N3
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 12 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-20-7 REGISTRY
ED Entered STN: 19 Sep 2000
CN Acetamide, N-[2-[(2-quinolinylmethyl)amino]ethyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H17 N3 O
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

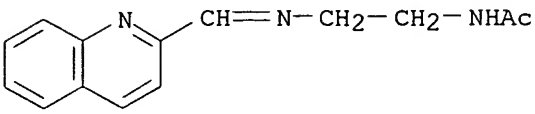


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 13 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-19-4 REGISTRY
ED Entered STN: 19 Sep 2000
CN Acetamide, N-[2-[(2-quinolinylmethylene)amino]ethyl]- (9CI) (CA INDEX

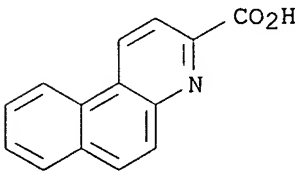
NAME)
FS 3D CONCORD
MF C14 H15 N3 O
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

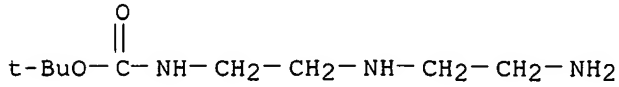
L2 ANSWER 14 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 289661-18-3 REGISTRY
ED Entered STN: 19 Sep 2000
CN Benzo[f]quinoline-3-carboxylic acid, hydrobromide (9CI) (CA INDEX NAME)
MF C14 H9 N O2 . Br H
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (65714-31-0)



● HBr

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

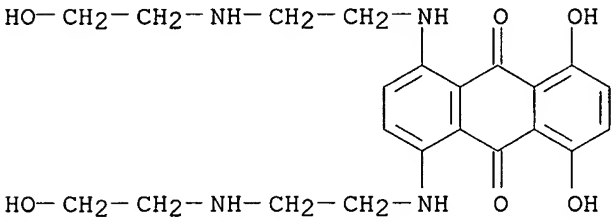
L2 ANSWER 15 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 193206-49-4 REGISTRY
ED Entered STN: 28 Aug 1997
CN Carbamic acid, [2-[(2-aminoethyl)amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C9 H21 N3 O2
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

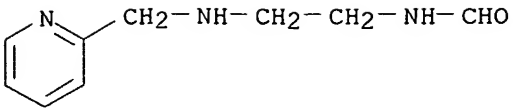
L2 ANSWER 16 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 65271-80-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9,10-Anthracenedione, 1,4-dihydroxy-5,8-bis[[2-[(2-hydroxyethyl)amino]ethyl]amino]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,4-Bis[(2-(2-hydroxyethylamino)ethyl)amino]-5,8-dihydroxyanthraquinone
CN 1,4-Dihydroxy-5,8-bis-[[2-[(2-hydroxyethyl)amino]ethyl]amino]anthraquinone
CN 1,4-Dihydroxy-5,8-bis[[2-[(2-hydroxyethyl)amino]ethyl]amino]-9,10-anthracenedione
CN DHAQ
CN Dihydroxyanthraquinone
CN Mitoxanthrone
CN Mitoxantrone
CN Mitozantrone
CN Novantron
CN Novantrone
CN NSC 279836
CN Ralenova
FS 3D CONCORD
DR 137635-96-2, 70945-62-9
MF C22 H28 N4 O6
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*, PHAR, PROMT, PROUSDDR, PS, RTECS*, SCISEARCH, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: WHO



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2976 REFERENCES IN FILE CA (1907 TO DATE)
104 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2985 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 17 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 59065-50-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Formamide, N-[2-[(2-pyridinylmethyl)amino]ethyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C9 H13 N3 O
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

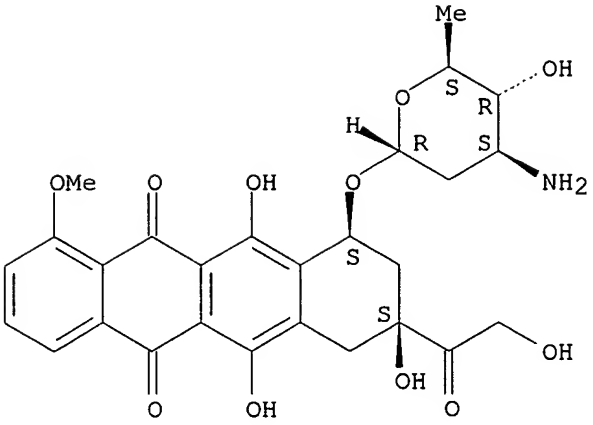


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 18 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 56420-45-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 5,12-Naphthacenedione, 10-[(3-amino-2,3,6-trideoxy-α-L-arabino-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-8-(hydroxyacetyl)-1-methoxy-, (8S,10S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5,12-Naphthacenedione, 10-[(3-amino-2,3,6-trideoxy-α-L-arabino-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-8-(hydroxyacetyl)-1-methoxy-, (8S-cis)-
OTHER NAMES:
CN 4'-epi-Adriamycin
CN 4'-epi-Doxorubicin
CN 4'-Epi-DX
CN 4'-Epiadriamycin
CN 4'-Epidoxorubicin
CN Epiadriamycin
CN Epidoxorubicin
CN Epirubicin
CN Farmarubicin
CN Farmarubicine
CN IMI 28
CN NSC 256942
CN Pharmarubicin
CN Pidorubicin
CN WP 697
FS STEREOSEARCH
DR 57918-25-9
MF C27 H29 N O11
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS, CBNB, CHEMCATS, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*, NAPRALERT, PHAR, PROMT, PROUSDDR, PS, RTECS*, SCISEARCH, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: WHO

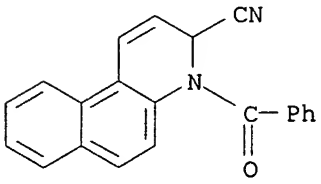
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2331 REFERENCES IN FILE CA (1907 TO DATE)
93 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2336 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 19 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 26455-95-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzo[f]quinoline-3-carbonitrile, 4-benzoyl-3,4-dihydro- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Benzoyl-1,2-dihydrobenzo[f]quinaldonitrile
CN NSC 96541
FS 3D CONCORD
MF C21 H14 N2 O
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

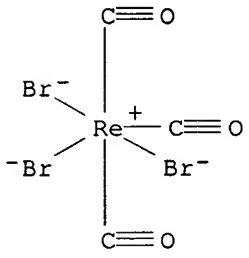
8 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 20 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 25908-22-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanaminium, N,N,N-triethyl-, (OC-6-22)-tribromotricarbonylrhenate(2-) (2:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ammonium, tetraethyl-, tribromotricarbonylrhenate(2-) (2:1), cis- (8CI)
CN Rhenate(2-), tribromotricarbonyl-, (OC-6-22)-, bis(N,N,N-triethylethanaminium) (9CI)
CN Rhenate(2-), tribromotricarbonyl-, bis(tetraethylammonium), cis- (8CI)

OTHER NAMES:
CN Bis(tetraethylammonium) fac-tribromotricarbonylrhenate
CN Bis(tetraethylammonium) fac-tribromotricarbonylrhenate(2-)
CN Bis(tetraethylammonium) tribromotricarbonylrhenate(2-)
CN fac-Bis(tetraethylammonium) tribromotricarbonylrhenate(2-)
MF C8 H20 N . 1/2 C3 Br3 O3 Re
LC STN Files: CA, CAPLUS, CASREACT, GMELIN*, TOXCENTER, USPAT2, USPATFULL
        (*File contains numerically searchable property data)

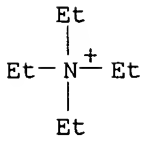
    CM 1

    CRN 44863-71-0
    CMF C3 Br3 O3 Re
    CCI CCS



    CM 2

    CRN 66-40-0
    CMF C8 H20 N

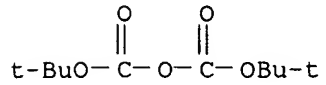


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

            125 REFERENCES IN FILE CA (1907 TO DATE)
            125 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 21 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 24424-99-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Dicarbonic acid, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Formic acid, oxydi-, di-tert-butyl ester (7CI, 8CI)
OTHER NAMES:
CN Bis(1,1-dimethylethyl) dicarbonate
CN Bis(tert-butyl) dicarbonate
CN BOC-anhydride
CN Di-tert-butyl dicarbonate
CN Di-tert-butyl oxydiformate
CN Di-tert-butyl pyrocarbonate
CN Pyrocarbonic acid di-tert-butyl ester
CN tert-Butoxycarbonyl anhydride
CN tert-Butyl dicarbonate
FS 3D CONCORD

MF C10 H18 O5
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, GMELIN*, IPA, MEDLINE, MSDS-OHS, PROMT, PS, RTECS*, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
      (*File contains numerically searchable property data)
    Other Sources: DSL**, EINECS**, TSCA**
      (**Enter CHEMLIST File for up-to-date regulatory information)

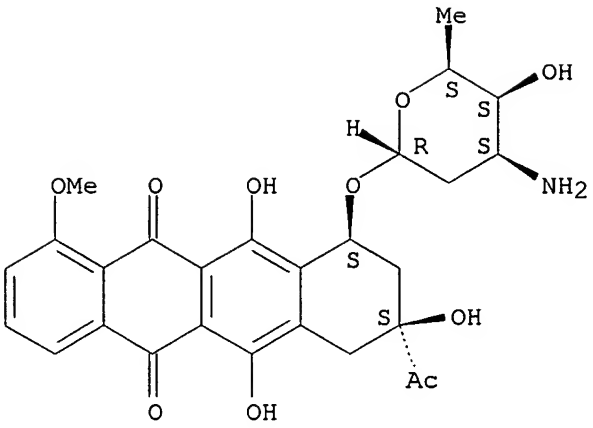


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4922 REFERENCES IN FILE CA (1907 TO DATE)
155 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4941 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 22 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 20830-81-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy-α-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S,10S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy-α-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-
CN Daunomycin (8CI)
OTHER NAMES:
CN (+)-Daunomycin
CN Acetyladriamycin
CN Cerubidin
CN Daunoblastina
CN Daunomycine
CN Daunorubicin
CN Daunorubicine
CN DaunoXome
CN Leukaemomycin C
CN NSC 82151
CN NSC 83142
CN RP 13057
CN Rubidomycin
CN Rubomycin C
FS STEREOSEARCH
DR 11006-54-5, 11048-29-6, 1407-15-4, 23942-76-9, 149541-57-1, 27576-81-4, 28020-80-6
MF C27 H29 N O10
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PHAR, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
      (*File contains numerically searchable property data)
    Other Sources: EINECS**, WHO
      (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6301 REFERENCES IN FILE CA (1907 TO DATE)
667 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6308 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 23 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 14998-63-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Rhenium, isotope of mass 186 (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 186Re
CN Re 186
CN Re-186
CN Rhenium-186
MF Re
CI COM
LC STN Files: ADISNEWS, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CBNB, CIN, EMBASE, PROMT, TOXCENTER, USPAT2, USPATFULL

^{186}Re

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1121 REFERENCES IN FILE CA (1907 TO DATE)
402 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1123 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 24 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 14378-26-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Rhenium, isotope of mass 188 (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 188Re
CN Re 188
CN Rhenium-188
MF Re
CI COM
SR CA

LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CIN, IPA, PROMT, TOXCENTER, USPAT2, USPATFULL

^{188}Re

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1216 REFERENCES IN FILE CA (1907 TO DATE)
477 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1218 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 25 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 14133-76-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Technetium, isotope of mass 99 (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 99Tc
CN Tc 99
CN Technetium-99
MF Tc
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMLIST, CIN, CSNB, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, PROMT, TOXCENTER, USPAT2, USPATFULL

^{99}Tc

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9189 REFERENCES IN FILE CA (1907 TO DATE)
3642 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9196 REFERENCES IN FILE CAPLUS (1907 TO DATE)
27 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 26 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 12678-01-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phenanthroline (7CI, 9CI) (CA INDEX NAME)
MF C12 H8 N2
CI COM, MAN
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CIN, DETHERM*, EMBASE, IFICDB, IFIPAT, IFIUDB, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
265 REFERENCES IN FILE CA (1907 TO DATE)
84 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
267 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 27 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 7439-96-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Manganese (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Colloidal manganese

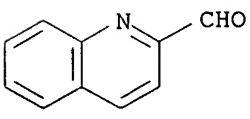
CN Cutaval
CN JIS-G 1213
CN Manganese element
CN Manganese fulleride (MnC20)
CN Manganese-55
DR 8031-40-1, 8075-39-6, 17375-02-9, 39303-06-5, 195161-78-5
MF Mn
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Mn

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

182431 REFERENCES IN FILE CA (1907 TO DATE)
9241 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
182655 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 28 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 5470-96-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Quinolinecarboxaldehyde (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Quinaldaldehyde (6CI, 7CI, 8CI)
OTHER NAMES:
CN 2-Formylquinoline
CN 2-Quinolinecarbaldehyde
CN 2-Quinolylaldehyde
CN 2-Quinolylcarbaldehyde
CN NSC 27026
FS 3D CONCORD
MF C10 H7 N O
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, PS, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

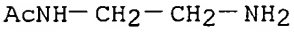


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

449 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

451 REFERENCES IN FILE CAPLUS (1907 TO DATE)
29 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

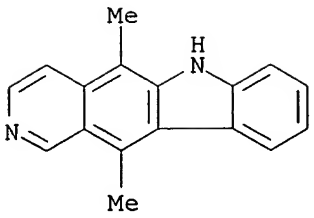
L2 ANSWER 29 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 1001-53-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetamide, N-(2-aminoethyl)- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,2-Ethanediamine, N-acetyl-
CN 2-(Acetylamino)ethylamine
CN 2-Acetamido-1-ethanamine
CN 2-Acetamidoethylamine
CN N-(2-Aminoethyl)acetamide
CN N-Acetyl-1,2-diaminoethane
CN N-Acetyl-1,2-ethanediamine
CN N-Acetyl-1,2-ethylenediamine
CN N-Acetylethylenediamine
CN N-Monoacetylethylenediamine
CN N1-Acetylethylenediamine
CN NSC 28936
FS 3D CONCORD
MF C4 H10 N2 O
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, IPA, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

403 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
404 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

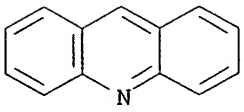
L2 ANSWER 30 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 519-23-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 6H-Pyrido[4,3-b]carbazole, 5,11-dimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ellipticine (6CI)
OTHER NAMES:
CN 5,11-Dimethyl-6H-pyrido[4,3-b]carbazole
CN CP 5
CN NSC 71795
FS 3D CONCORD
MF C17 H14 N2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MRCK*, NAPRALERT, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

652 REFERENCES IN FILE CA (1907 TO DATE)
138 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
653 REFERENCES IN FILE CAPLUS (1907 TO DATE)
8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 31 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 260-94-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acridine (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 10-Azaanthracene
CN 2,3-Benzoquinoline
CN 9-Azaanthracene
CN Benzo[b]quinoline
CN Dibenzo[b,e]pyridine
CN NSC 3408
FS 3D CONCORD
MF C13 H9 N
CI COM, RPS
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

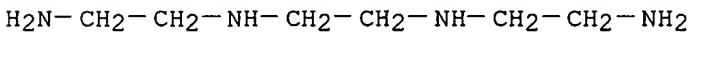


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4531 REFERENCES IN FILE CA (1907 TO DATE)
625 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4538 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 32 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 112-24-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Triethylenetetramine (8CI)

OTHER NAMES:
CN 1,4,7,10-Tetraazadecane
CN 1,8-Diamino-3,6-diazaoctane
CN 3,6-Diazaoctane-1,8-diamine
CN Ancamine TETA
CN Araldite Hardener HY 951
CN Araldite HY 951
CN DEH 24
CN Epicure 3234
CN HY 951
CN N,N'-Bis(2-aminoethyl)-1,2-diaminoethane
CN N,N'-Bis(2-aminoethyl)-1,2-ethanediamine
CN N,N'-Bis(2-aminoethyl)ethylenediamine
CN NSC 443
CN RT 1AX
CN Rutapox VE 2896
CN TECZA
CN TETA
CN TETA (crosslinking agent)
CN Trien
CN Trientine
CN VE 2896
CN Z1
FS 3D CONCORD
DR 801997-18-2, 14175-14-5, 105093-20-7, 71124-11-3, 39421-77-7, 110670-33-2, 193487-08-0
MF C6 H18 N4
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSDRUGNEWS, IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
      (*File contains numerically searchable property data)
    Other Sources: DSL**, EINECS**, TSCA**, WHO
      (**Enter CHEMLIST File for up-to-date regulatory information)

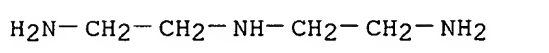


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5943 REFERENCES IN FILE CA (1907 TO DATE)
1697 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5949 REFERENCES IN FILE CAPLUS (1907 TO DATE)
114 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 33 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 111-40-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,2-Ethanediamine, N-(2-aminoethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Diethylenetriamine (8CI)
OTHER NAMES:
CN 1,4,7-Triazaheptane
CN 1,5-Diamino-3-azapentane
CN 2,2'-Diaminodiethylamine
CN 2,2'-Iminobis(ethanamine)
CN 2-(2-Aminoethylamino)ethylamine
CN 3-Azapentane-1,5-diamine

CN Ancamine DETA
CN Bis(β-aminoethyl)amine
CN Bis(2-aminoethyl)amine
CN ChS-P 1
CN DEH 20
CN DETA
CN Epicure T
CN Epon 3223
CN H 9506
CN N,N-Bis(2-aminoethyl)amine
CN N-(2-Aminoethyl)-1,2-ethanediamine
CN N-(2-Aminoethyl)ethylenediamine
CN NCI 138881
CN NSC 446
FS 3D CONCORD
DR 859039-00-2, 8076-55-9, 53303-76-7, 54018-92-7, 59135-90-9, 94700-17-1, 98824-35-2, 73989-30-7, 26915-78-6, 419553-44-9
MF C4 H13 N3
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9243 REFERENCES IN FILE CA (1907 TO DATE)
3097 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9256 REFERENCES IN FILE CAPLUS (1907 TO DATE)
168 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

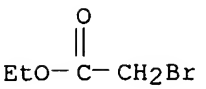
L2 ANSWER 34 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 105-36-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetic acid, bromo-, ethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (Ethoxycarbonyl)methyl bromide
CN α-Bromoacetic acid ethyl ester
CN 2-Bromoacetic acid ethyl ester
CN Antol
CN Bromoacetic acid ethyl ester
CN Ethyl α-bromoacetate
CN Ethyl 2-bromoacetate
CN Ethyl 2-bromoethanoate
CN Ethyl bromacetate
CN Ethyl bromoacetate
CN Ethyl bromoethanoate
CN Ethyl monobromoacetate
CN NSC 8832
FS 3D CONCORD
DR 679806-14-5
MF C4 H7 Br O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, CA, CAOLD,

CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

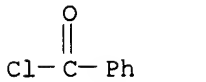
8356 REFERENCES IN FILE CA (1907 TO DATE)
27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8370 REFERENCES IN FILE CAPLUS (1907 TO DATE)
43 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 35 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 98-88-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoyl chloride (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Benzaldehyde, α-chloro-
CN Benzenecarbonyl chloride
CN Benzoic acid chloride
FS 3D CONCORD
MF C7 H5 Cl O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

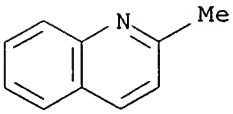


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15950 REFERENCES IN FILE CA (1907 TO DATE)
407 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
15992 REFERENCES IN FILE CAPLUS (1907 TO DATE)
8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 36 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 91-63-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Quinoline, 2-methyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Quinaldine (8CI)
OTHER NAMES:

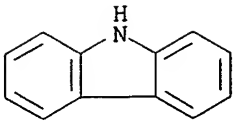
CN 2-Methylquinoline
CN Khinaldin
CN NSC 3397
FS 3D CONCORD
MF C10 H9 N
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1992 REFERENCES IN FILE CA (1907 TO DATE)
53 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1992 REFERENCES IN FILE CAPLUS (1907 TO DATE)
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

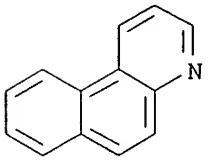
L2 ANSWER 37 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 86-74-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Carbazole (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Carbazole (8CI)
OTHER NAMES:
CN 9-Azafluorene
CN Chlorophenesin carbamate
CN Dibenzopyrrole
CN Dibenzo[b,d]pyrrole
CN Diphenylenimine
CN NSC 3498
CN SKF 20091
FS 3D CONCORD
MF C12 H9 N
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5803 REFERENCES IN FILE CA (1907 TO DATE)
609 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5816 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 38 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 85-02-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzo[f]quinoline (6CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN β-Naphthoquinoline
CN 1-Azaphenanthrene
CN 5,6-Benzoquinoline
CN 5,6-Benzo[f]quinoline
CN NSC 9850
FS 3D CONCORD
DR 76713-23-0
MF C13 H9 N
CI COM, RPS
LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, DETHERM*, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, RTECS*, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

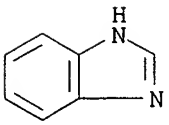


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

899 REFERENCES IN FILE CA (1907 TO DATE)
49 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
899 REFERENCES IN FILE CAPLUS (1907 TO DATE)
51 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 39 OF 39 REGISTRY COPYRIGHT 2006 ACS on STN
RN 51-17-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Benzimidazole (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzimidazole (6CI, 8CI)
OTHER NAMES:
CN 1,3-Benzodiazole
CN 1,3-Diazaindene
CN 3-Azaindole

CN Azindole
CN Benziminazole
CN Benzoglyoxaline
CN Benzoimidazole
CN BZI
CN N,N'-Methenyl-o-phenylenediamine
CN NSC 759
CN o-Benzimidazole
FS 3D CONCORD
DR 25463-25-6, 79351-71-6, 116421-27-3
MF C7 H6 N2
CI COM, RPS
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6333 REFERENCES IN FILE CA (1907 TO DATE)
1941 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6341 REFERENCES IN FILE CAPLUS (1907 TO DATE)
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s 289705-41-5/rn or 289705-40-4/rn
1 289705-41-5/RN
1 289705-40-4/RN
L3 2 289705-41-5/RN OR 289705-40-4/RN

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	76.30	79.00

FILE 'CAPLUS' ENTERED AT 08:44:25 ON 11 SEP 2006

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FILE COVERS 1907 - 11 Sep 2006  VOL 145 ISS 12
FILE LAST UPDATED: 10 Sep 2006  (20060910/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html

=> s 289705-41-5/rn or 289705-40-4/rn
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             0 289705-41-5D
             1 289705-41-5/RN
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             1 289705-40-4
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                 (289705-40-4 (NOTL) 289705-40-4D )
L4           1 289705-41-5/RN OR 289705-40-4/RN

=> d ibib

L4   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2000:608618  CAPLUS
DOCUMENT NUMBER:          133:204807
TITLE:                    Molecules for the treatment and diagnosis of tumors
INVENTOR(S):              Alberto, Roger Ariel; Schibli, Roger
PATENT ASSIGNEE(S):       Mallinckrodt Inc., USA
SOURCE:                   PCT Int. Appl., 28 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     WO 2000050086         A1    20000831    WO 2000-EP1553          20000224
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     CA 2360419            AA    20000831    CA 2000-2360419         20000224
     EP 1154798            A1    20011121    EP 2000-910711          20000224
     EP 1154798            B1    20060510
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, CY
     JP 2002537360         T2    20021105    JP 2000-600696          20000224
     AT 325624             E     20060615    AT 2000-910711          20000224
     US 6844425            B1    20050118    US 2001-913788          20010815
     US 2005019254         A1    20050127    US 2004-707994          20040130
PRIORITY APPLN. INFO.:                       US 1999-121340P     P   19990224
                                             EP 1999-200754      A   19990312
                                             WO 2000-EP1553      W   20000224
                                             US 2001-913788      A1  20010815
REFERENCE COUNT:          10    THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


=>
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---Logging off of STN---


=>
Executing the logoff script...


=> LOG Y

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       9.40      88.40

STN INTERNATIONAL LOGOFF AT 08:44:51 ON 11 SEP 2006


Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  FEB 27  New STN AnaVist pricing effective March 1, 2006
 NEWS  4  MAY 10  CA/CAplus enhanced with 1900-1906 U.S. patent records
 NEWS  5  MAY 11  KOREAPAT updates resume
 NEWS  6  MAY 19  Derwent World Patents Index to be reloaded and enhanced
 NEWS  7  MAY 30  IPC 8 Rolled-up Core codes added to CA/CAplus and
                  USPATFULL/USPAT2
 NEWS  8  MAY 30  The F-Term thesaurus is now available in CA/CAplus
 NEWS  9  JUN 02  The first reclassification of IPC codes now complete in
                  INPADOC
 NEWS 10  JUN 26  TULSA/TULSA2 reloaded and enhanced with new search and
                  and display fields
 NEWS 11  JUN 28  Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 12  JUl 11  CHEMSAFE reloaded and enhanced
 NEWS 13  JUl 14  FSTA enhanced with Japanese patents
 NEWS 14  JUl 19  Coverage of Research Disclosure reinstated in DWPI
 NEWS 15  AUG 09  INSPEC enhanced with 1898-1968 archive
 NEWS 16  AUG 28  ADISCTI Reloaded and Enhanced
 NEWS 17  AUG 30  CA(SM)/CAplus(SM) Austrian patent law changes

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8
 NEWS X25      X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
```

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:47:38 ON 11 SEP 2006

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:48:06 ON 11 SEP 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 SEP 2006 HIGHEST RN 906318-57-8
DICTIONARY FILE UPDATES: 10 SEP 2006 HIGHEST RN 906318-57-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

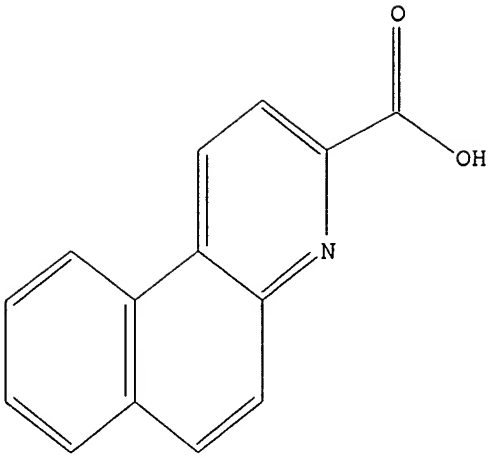
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading c:\program files\stnexp\queries\10707994 fig.2

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 exa full
FULL SEARCH INITIATED 08:49:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11 TO ITERATE

100.0% PROCESSED 11 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L2 1 SEA EXA FUL L1

=> s l1 sss full
FULL SEARCH INITIATED 08:49:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 240 TO ITERATE

100.0% PROCESSED 240 ITERATIONS 21 ANSWERS
SEARCH TIME: 00.00.01

L3 21 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	223.92	224.13

FILE 'CAPLUS' ENTERED AT 08:49:49 ON 11 SEP 2006

FILE COVERS 1907 - 11 Sep 2006 VOL 145 ISS 12
FILE LAST UPDATED: 10 Sep 2006 (20060910/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> s l3
L4          29 L3

=> s l3/thu
            29 L3
        809336 THU/RL
L5           0 L3/THU
                 (L3 (L) THU/RL)

=> s l3/dgn
            29 L3
         66042 DGN/RL
L6           0 L3/DGN
                 (L3 (L) DGN/RL)

=> s l4 not py>1999
       7119107 PY>1999
L7          28 L4 NOT PY>1999

=> s tumor? or cancer? or neoplas?
        440617 TUMOR?
        305237 CANCER?
        462188 NEOPLAS?
L8      730006 TUMOR? OR CANCER? OR NEOPLAS?

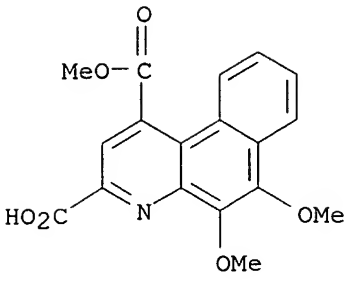
=> s l8 and l7
L9           0 L8 AND L7

=> d ibib l7

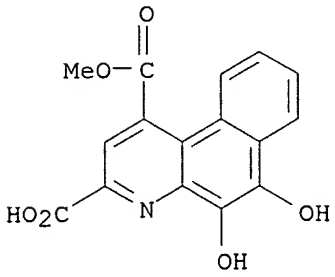
L7   ANSWER 1 OF 28  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:        1995:413350  CAPLUS
DOCUMENT NUMBER:         122:176988
TITLE:                   Synthesis of Pyrroloquinolinequinone Analogs.
                         Molecular Structure and Moessbauer and Magnetic
                         Properties of Their Iron Complexes
AUTHOR(S):               Tommasi, L.; Shechter-Barloy, L.; Varech, D.;
                         Battioni, J.-P.; Donnadieu, B.; Verelst, M.;
                         Bousseksou, A.; Mansuy, D.; Tuchagues, J.-P.
CORPORATE SOURCE:        Laboratoire de Chimie de Coordination, CNRS, Toulouse,
                         31077, Fr.
SOURCE:                  Inorganic Chemistry (1995), 34(6), 1514-23
                         CODEN: INOCAJ; ISSN: 0020-1669
PUBLISHER:               American Chemical Society
DOCUMENT TYPE:           Journal
LANGUAGE:                English


=> d hitstr l7

L7   ANSWER 1 OF 28  CAPLUS  COPYRIGHT 2006 ACS on STN
IT   161470-03-7P 161470-04-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and complexation with iron)
RN   161470-03-7  CAPLUS
CN   Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dimethoxy-, 1-methyl ester
     (9CI)  (CA INDEX NAME)
```



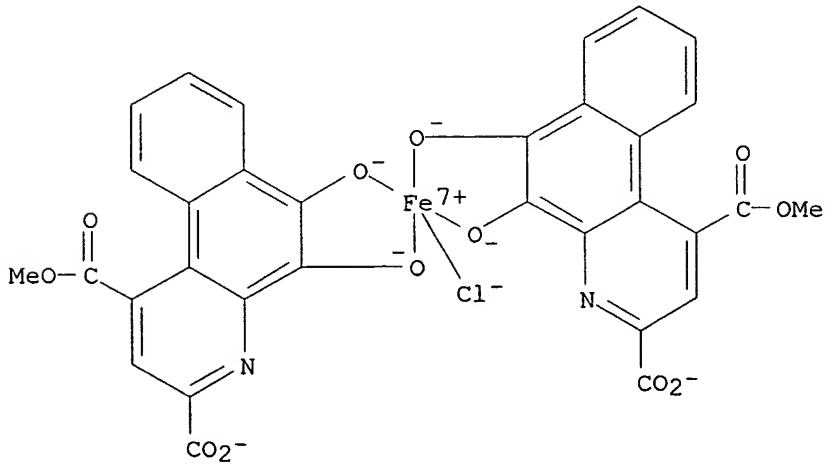
RN 161470-04-8 CAPLUS
CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dihydroxy-, 1-methyl ester (9CI) (CA INDEX NAME)



IT 161470-01-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and magnetic moment of)
RN 161470-01-5 CAPLUS
CN Iron, chlorobis[1-methyl 5,6-dihydroxybenzo[f]quinoline-1,3-dicarboxylato(3-)-O5,O6]-, compd. with N,N-diethylethanamine hydrochloride (1:2) (9CI) (CA INDEX NAME)

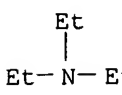
CM 1

CRN 161470-00-4
CMF C32 H16 Cl Fe N2 O12
CCI CCS



CM 2

CRN 554-68-7
CMF C6 H15 N . Cl H



● HCl

```
=> d his

     (FILE 'HOME' ENTERED AT 08:47:38 ON 11 SEP 2006)

     FILE 'REGISTRY' ENTERED AT 08:48:06 ON 11 SEP 2006
L1              STRUCTURE UPLOADED
L2            1 S L1 EXA FULL
L3           21 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 08:49:49 ON 11 SEP 2006
L4           29 S L3
L5            0 S L3/THU
L6            0 S L3/DGN
L7           28 S L4 NOT PY>1999
L8       730006 S TUMOR? OR CANCER? OR NEOPLAS?
L9            0 S L8 AND L7

=> s technium
L10           2 TECHNIUM

=> s Tc99
L11         147 TC99

=> s l11 and l4
L12           0 L11 AND L4

=> s antibod? and l4
        470558 ANTIBOD?
L13           0 ANTIBOD? AND L4

=> s radio? and l4
        639924 RADIO?
L14           1 RADIO? AND L4

=> d ibib

L14  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2000:608618  CAPLUS
DOCUMENT NUMBER:          133:204807
TITLE:                    Molecules for the treatment and diagnosis of tumors
INVENTOR(S):              Alberto, Roger Ariel; Schibli, Roger
PATENT ASSIGNEE(S):       Mallinckrodt Inc., USA
SOURCE:                   PCT Int. Appl., 28 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
```

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050086	A1	20000831	WO 2000-EP1553	20000224
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2360419	AA	20000831	CA 2000-2360419	20000224
EP 1154798	A1	20011121	EP 2000-910711	20000224
EP 1154798	B1	20060510		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
JP 2002537360	T2	20021105	JP 2000-600696	20000224
AT 325624	E	20060615	AT 2000-910711	20000224
US 6844425	B1	20050118	US 2001-913788	20010815
US 2005019254	A1	20050127	US 2004-707994	20040130
PRIORITY APPLN. INFO.:			US 1999-121340P P	19990224
			EP 1999-200754 A	19990312
			WO 2000-EP1553 W	20000224
			US 2001-913788 A1	20010815

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	29.21	253.34

STN INTERNATIONAL LOGOFF AT 08:56:34 ON 11 SEP 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:
x
Welcome to STN International! Enter x:
LOGINID:SSSPTA1642BJF

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

```
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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  FEB 27   New STN AnaVist pricing effective March 1, 2006
 NEWS  4  MAY 10   CA/CAplus enhanced with 1900-1906 U.S. patent records
 NEWS  5  MAY 11   KOREAPAT updates resume
 NEWS  6  MAY 19   Derwent World Patents Index to be reloaded and enhanced
 NEWS  7  MAY 30   IPC 8 Rolled-up Core codes added to CA/CAplus and
                   USPATFULL/USPAT2
 NEWS  8  MAY 30   The F-Term thesaurus is now available in CA/CAplus
 NEWS  9  JUN 02   The first reclassification of IPC codes now complete in
                   INPADOC
 NEWS 10  JUN 26   TULSA/TULSA2 reloaded and enhanced with new search and
                   and display fields
 NEWS 11  JUN 28   Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 12  JUl 11   CHEMSAFE reloaded and enhanced
 NEWS 13  JUl 14   FSTA enhanced with Japanese patents
 NEWS 14  JUl 19   Coverage of Research Disclosure reinstated in DWPI
 NEWS 15  AUG 09   INSPEC enhanced with 1898-1968 archive
 NEWS 16  AUG 28   ADISCTI Reloaded and Enhanced
 NEWS 17  AUG 30   CA(SM)/CAplus(SM) Austrian patent law changes
 NEWS 18  SEP 11   CA/CAplus enhanced with more pre-1907 records

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8
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FILE 'HOME' ENTERED AT 11:15:54 ON 11 SEP 2006

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 11:16:16 ON 11 SEP 2006
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DICTIONARY FILE UPDATES:  10 SEP 2006  HIGHEST RN 906318-57-8
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=>
Uploading c:\program files\stnexp\queries\10707994 fig.2

L1   STRUCTURE UPLOADED

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	0.65

STN INTERNATIONAL LOGOFF AT 11:16:43 ON 11 SEP 2006

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LOGINID:SSSPTA1642BJF

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
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NEWS	6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS	7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS	8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS	9	JUN 02	The first reclassification of IPC codes now complete in

```
                  INPADOC
 NEWS 10  JUN 26  TULSA/TULSA2 reloaded and enhanced with new search and
                  and display fields
 NEWS 11  JUN 28  Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 12  JUl 11  CHEMSAFE reloaded and enhanced
 NEWS 13  JUl 14  FSTA enhanced with Japanese patents
 NEWS 14  JUl 19  Coverage of Research Disclosure reinstated in DWPI
 NEWS 15  AUG 09  INSPEC enhanced with 1898-1968 archive
 NEWS 16  AUG 28  ADISCTI Reloaded and Enhanced
 NEWS 17  AUG 30  CA(SM)/CAplus(SM) Austrian patent law changes
 NEWS 18  SEP 11  CA/CAplus enhanced with more pre-1907 records

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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FILE 'HOME' ENTERED AT 11:18:15 ON 11 SEP 2006

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 11:18:27 ON 11 SEP 2006
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DICTIONARY FILE UPDATES:  10 SEP 2006  HIGHEST RN 906318-57-8

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```

```
=>
Uploading c:\program files\stnexp\queries\10707994 fig.2b

L1      STRUCTURE UPLOADED

=> s l1 exa full
FULL SEARCH INITIATED 11:18:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       22 TO ITERATE

100.0% PROCESSED       22 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

L2            1 SEA EXA FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      56.54      56.75

FILE 'CAPLUS' ENTERED AT 11:18:51 ON 11 SEP 2006
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FILE LAST UPDATED: 10 Sep 2006  (20060910/ED)

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=> s l1
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.




SAMPLE SEARCH INITIATED 11:18:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       74 TO ITERATE

100.0% PROCESSED       74 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          964 TO     1996
PROJECTED ANSWERS:               2 TO      124

L3            2 SEA SSS SAM L1
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L4 6 L3

=> d ibib 1-6

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:171538 CAPLUS
DOCUMENT NUMBER: 92:171538
TITLE: Reductive electrochemical carboxylation of nitrogen heterocycles
AUTHOR(S): Hess, Ulrich; Fuchs, Peter; Jacob, Elke; Lund, Henning
CORPORATE SOURCE: Sekt. Chem., Humboldt-Univ., Berlin, DDR-104, Ger. Dem. Rep.
SOURCE: Zeitschrift fuer Chemie (1980), 20(2), 64-5
CODEN: ZECEAL; ISSN: 0044-2402
DOCUMENT TYPE: Journal
LANGUAGE: German

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:6691 CAPLUS
DOCUMENT NUMBER: 88:6691
TITLE: Synthesis of 3-carbethoxy-8-methoxybenzo[f]isoquinoline as a key intermediate in the synthesis of 14-aza-13-norequilenin methyl ether
AUTHOR(S): Mahajan, R. K.; Singh, Manmohan
CORPORATE SOURCE: Dep. Chem., Himachal Pradesh Univ., Simla, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1977), 15B(5), 491-2
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 88:6691

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:593579 CAPLUS
DOCUMENT NUMBER: 83:193579
TITLE: Total synthesis of 13- and 14-azaequilenines by heterocycloaddition
AUTHOR(S): Zunnebeld, W. A.; Speckamp, W. N.
CORPORATE SOURCE: Lab. Org. Chem., Univ. Amsterdam, Amsterdam, Neth.
SOURCE: Tetrahedron (1975), 31(15), 1717-21
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1970:473505 CAPLUS
DOCUMENT NUMBER: 73:73505
TITLE: Androgenic, antiandrogenic, and anabolic activity of azasteroids on immature castrated rats
AUTHOR(S): Saksena, S. K.; Chaudhury, Ranjit R.
CORPORATE SOURCE: Dep. Pharmacol., Postgrad. Inst. Med. Educ. Res., Chandigarh, India
SOURCE: Indian Journal of Medical Research (1913-1988) (1970), 58(4), 513-18
CODEN: IJMRAQ; ISSN: 0019-5340
DOCUMENT TYPE: Journal
LANGUAGE: English

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:75962 CAPLUS

DOCUMENT NUMBER: 64:75962
ORIGINAL REFERENCE NO.: 64:14243c-g
TITLE: Aza steroids
INVENTOR(S): R. H. Jones, Emrys
PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd.
SOURCE: 4 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1017700		19660119	GB	19630515

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1965:454552 CAPLUS
DOCUMENT NUMBER: 63:54552
ORIGINAL REFERENCE NO.: 63:9912a-e
TITLE: Reaction of α-halo esters on α-amino ethers and α-amino nitriles in the presence of zinc or magnesium
AUTHOR(S): Canceill, Josette; Jacques, Jean
CORPORATE SOURCE: College de France, Paris
SOURCE: Bulletin de la Societe Chimique de France (1965), (4), 903-9
CODEN: BSCFAS; ISSN: 0037-8968
DOCUMENT TYPE: Journal
LANGUAGE: French
OTHER SOURCE(S): CASREACT 63:54552

=> s l3
L5 6 L3

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.30	64.95

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DICTIONARY FILE UPDATES: 10 SEP 2006 HIGHEST RN 906318-57-8

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```
=> s l1 sss full
FULL SEARCH INITIATED 11:19:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1257 TO ITERATE

100.0% PROCESSED     1257 ITERATIONS                                37 ANSWERS
SEARCH TIME: 00.00.01

L6           37 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     166.94     231.89

FILE 'CAPLUS' ENTERED AT 11:19:53 ON 11 SEP 2006
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FILE LAST UPDATED: 10 Sep 2006  (20060910/ED)

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=> s l6
L7           37 L6

=> s cancer? or tumor? or neoplas?
         305237 CANCER?
         440617 TUMOR?
         462188 NEOPLAS?
L8       730006 CANCER? OR TUMOR? OR NEOPLAS?

=> s l8 and l7
L9            1 L8 AND L7

=> d ibib

L9   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2000:608618  CAPLUS
DOCUMENT NUMBER:          133:204807
TITLE:                    Molecules for the treatment and diagnosis of
                          tumors
INVENTOR(S):              Alberto, Roger Ariel; Schibli, Roger
PATENT ASSIGNEE(S):       Mallinckrodt Inc., USA
SOURCE:                   PCT Int. Appl., 28 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
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FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.            KIND   DATE        APPLICATION NO.          DATE
     ---------------       ----   --------    --------------------     --------
     WO 2000050086          A1    20000831    WO 2000-EP1553           20000224
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
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             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     CA 2360419             AA    20000831    CA 2000-2360419          20000224
     EP 1154798             A1    20011121    EP 2000-910711           20000224
     EP 1154798             B1    20060510
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, CY
     JP 2002537360          T2    20021105    JP 2000-600696           20000224
     AT 325624              E     20060615    AT 2000-910711           20000224
     US 6844425             B1    20050118    US 2001-913788           20010815
     US 2005019254          A1    20050127    US 2004-707994           20040130
PRIORITY APPLN. INFO.:                         US 1999-121340P      P  19990224
                                               EP 1999-200754       A  19990312
                                               WO 2000-EP1553       W  20000224
                                               US 2001-913788       A1 20010815
REFERENCE COUNT:          10    THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> s l7 and metal
       1675553 METAL
        846029 METALS
       2032939 METAL
                  (METAL OR METALS)
L10         10 L7 AND METAL

=> d ibib 1-5

L10  ANSWER 1 OF 10  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2000:608618  CAPLUS
DOCUMENT NUMBER:          133:204807
TITLE:                    Molecules for the treatment and diagnosis of tumors
INVENTOR(S):              Alberto, Roger Ariel; Schibli, Roger
PATENT ASSIGNEE(S):       Mallinckrodt Inc., USA
SOURCE:                   PCT Int. Appl., 28 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.            KIND   DATE        APPLICATION NO.          DATE
     ---------------       ----   --------    --------------------     --------
     WO 2000050086          A1    20000831    WO 2000-EP1553           20000224
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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CA 2360419	AA	20000831	CA 2000-2360419	20000224
EP 1154798	A1	20011121	EP 2000-910711	20000224
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
JP 2002537360	T2	20021105	JP 2000-600696	20000224
AT 325624	E	20060615	AT 2000-910711	20000224
US 6844425	B1	20050118	US 2001-913788	20010815
US 2005019254	A1	20050127	US 2004-707994	20040130
PRIORITY APPLN. INFO.:			US 1999-121340P	P 19990224
			EP 1999-200754	A 19990312
			WO 2000-EP1553	W 20000224
			US 2001-913788	A1 20010815

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:413350 CAPLUS
DOCUMENT NUMBER: 122:176988
TITLE: Synthesis of Pyrroloquinolinequinone Analogs. Molecular Structure and Moessbauer and Magnetic Properties of Their Iron Complexes
AUTHOR(S): Tommasi, L.; Shechter-Barloy, L.; Varech, D.; Battioni, J.-P.; Donnadieu, B.; Verelst, M.; Bousseksou, A.; Mansuy, D.; Tuchagues, J.-P.
CORPORATE SOURCE: Laboratoire de Chimie de Coordination, CNRS, Toulouse, 31077, Fr.
SOURCE: Inorganic Chemistry (1995), 34(6), 1514-23
CODEN: INOCAJ; ISSN: 0020-1669
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

L10 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1957:900 CAPLUS
DOCUMENT NUMBER: 51:900
ORIGINAL REFERENCE NO.: 51:125h-i,126a
TITLE: 5,6-Benzoquinaldinic acid as an analytical reagent. I. Determination of thorium and zirconium
AUTHOR(S): Majumdar, Anil Kumar; Banerjee, Siddheswar
CORPORATE SOURCE: Coll. Eng. Tech., Bengal, Calcutta
SOURCE: Analytica Chimica Acta (1956), 14, 306-10
CODEN: ACACAM; ISSN: 0003-2670
DOCUMENT TYPE: Journal
LANGUAGE: English

L10 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1955:83186 CAPLUS
DOCUMENT NUMBER: 49:83186
ORIGINAL REFERENCE NO.: 49:15612c-d
TITLE: 5,6-Benzoquinaldinic acid as an analytical reagent. V. Separation of cadmium from different elements
AUTHOR(S): Majumdar, Anil Kumar; De, Anil Kumar
CORPORATE SOURCE: Coll. Eng. Technol., Bengal, Calcutta
SOURCE: J. Indian Chem. Soc. (1955), 32, 85-8
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

L10 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1954:31977 CAPLUS
DOCUMENT NUMBER: 48:31977
ORIGINAL REFERENCE NO.: 48:5713b-e
TITLE: Diphenylcarbazone as a colorimetric reagent for bivalent chromium

AUTHOR(S): Bose, Monisha
CORPORATE SOURCE: Univ. Coll. Sci., Calcutta
SOURCE: Science and Culture (1953), 19, 213-14
CODEN: SCINAL; ISSN: 0036-8156
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

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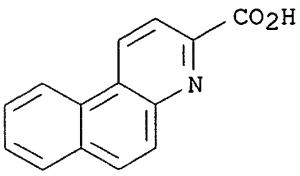
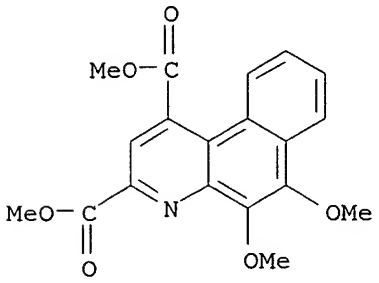
L10 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 289661-18-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(radiolabeled complexes for treatment and diagnosis of tumors)
RN 289661-18-3 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid, hydrobromide (9CI) (CA INDEX NAME)

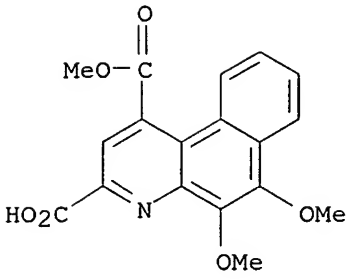


● HBr

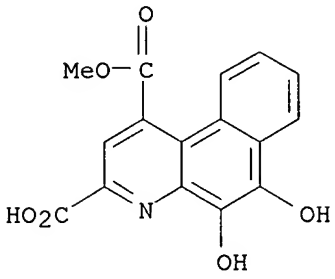
L10 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 161470-07-1P, 5,6-Dimethoxy-1,3-bis(methoxycarbonyl)benzo[f]quinoline
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and base hydrolysis of)
RN 161470-07-1 CAPLUS
CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dimethoxy-, dimethyl ester (9CI) (CA INDEX NAME)



IT 161470-03-7P 161470-04-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and complexation with iron)
RN 161470-03-7 CAPLUS
CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dimethoxy-, 1-methyl ester (9CI) (CA INDEX NAME)



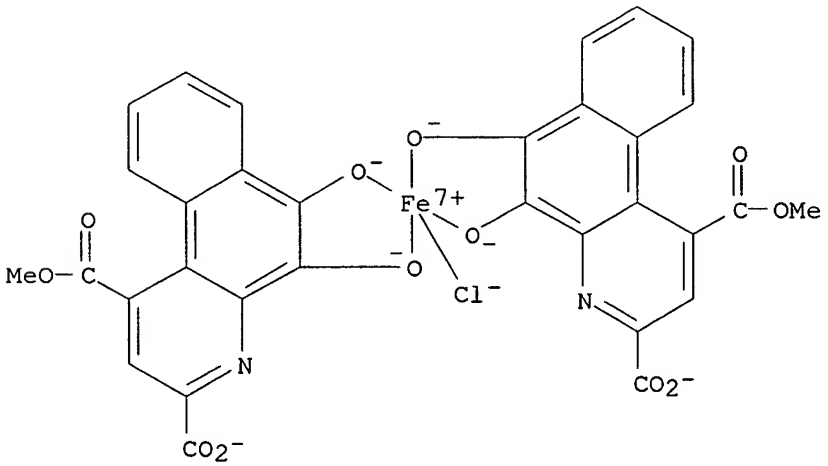
RN 161470-04-8 CAPLUS
CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dihydroxy-, 1-methyl ester (9CI) (CA INDEX NAME)



IT 161470-01-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and magnetic moment of)
RN 161470-01-5 CAPLUS
CN Iron, chlorobis[1-methyl 5,6-dihydroxybenzo[f]quinoline-1,3-dicarboxylato(3-)-O5,O6]-, compd. with N,N-diethylethanamine hydrochloride (1:2) (9CI) (CA INDEX NAME)

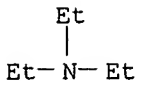
CM 1

CRN 161470-00-4
CMF C32 H16 Cl Fe N2 O12
CCI CCS



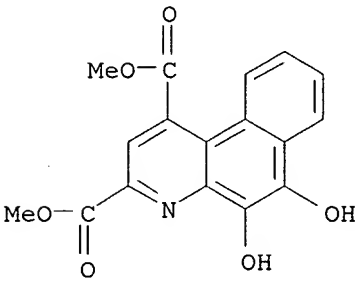
CM 2

CRN 554-68-7
CMF C6 H15 N . Cl H

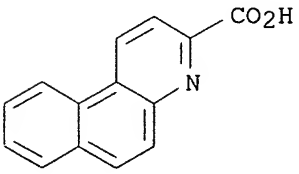


● HCl

IT 142422-23-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, protection, oxidation, base hydrolysis, and complexation with iron)
RN 142422-23-9 CAPLUS
CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dihydroxy-, dimethyl ester (9CI) (CA INDEX NAME)

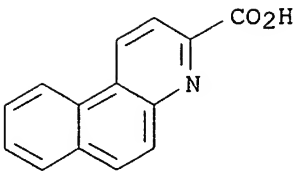


L10 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(formed therefrom, in titanium determination)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)

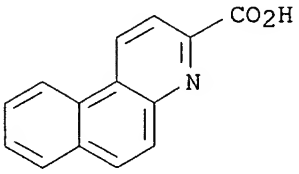


(in analysis of Th and Zr, and compds. formed therefrom
(in titanium detn., and Ti deriv. formed therefrom

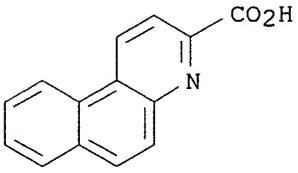
L10 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(in cadmium determination)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



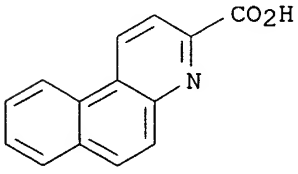
L10 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(in analysis)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



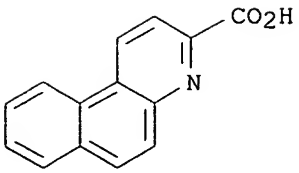
L10 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(in analysis)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



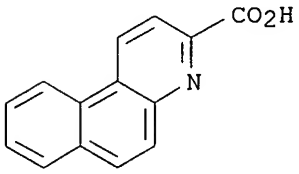
L10 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(and salts, in analytical chemistry)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



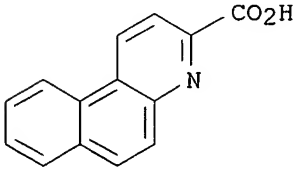
L10 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(in cadmium determination)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



L10 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 65714-31-0, 5,6-Benzoquinaldic acid
(in analysis)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



L10 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
IT 65714-31-0, 5,6-Benzoquinoline-3-carboxylic acid
(preparation of)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



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L10 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:608618 CAPLUS
DOCUMENT NUMBER: 133:204807
TITLE: Molecules for the treatment and diagnosis of tumors
INVENTOR(S): Alberto, Roger Ariel; Schibli, Roger
PATENT ASSIGNEE(S): Mallinckrodt Inc., USA
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050086	A1	20000831	WO 2000-EP1553	20000224

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,

MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

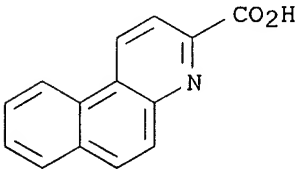
CA 2360419	AA	20000831	CA 2000-2360419	20000224
EP 1154798	A1	20011121	EP 2000-910711	20000224
EP 1154798	B1	20060510		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
JP 2002537360	T2	20021105	JP 2000-600696	20000224
AT 325624	E	20060615	AT 2000-910711	20000224
US 6844425	B1	20050118	US 2001-913788	20010815
US 2005019254	A1	20050127	US 2004-707994	20040130
PRIORITY APPLN. INFO.:			US 1999-121340P	P 19990224
			EP 1999-200754	A 19990312
			WO 2000-EP1553	W 20000224
			US 2001-913788	A1 20010815

AB The invention relates to mols. for treatment and diagnosis of tumors and malignancies, comprising a tumor seeking biomol., which is coupled to an intercalating moiety, which is capable of complexing a metal, which metal is preferably a radioactive metal, to the use of these mols. and to therapeutic and diagnostic compns. containing them.

IT 289661-18-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(radiolabeled complexes for treatment and diagnosis of tumors)

RN 289661-18-3 CAPLUS

CN Benzo[f]quinoline-3-carboxylic acid, hydrobromide (9CI) (CA INDEX NAME)



● HBr

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	1995:413350 CAPLUS
DOCUMENT NUMBER:	122:176988
TITLE:	Synthesis of Pyrroloquinolinequinone Analogs. Molecular Structure and Moessbauer and Magnetic Properties of Their Iron Complexes
AUTHOR(S):	Tommasi, L.; Shechter-Barloy, L.; Varech, D.; Battioni, J.-P.; Donnadieu, B.; Verelst, M.; Bousseksou, A.; Mansuy, D.; Tuchagues, J.-P.
CORPORATE SOURCE:	Laboratoire de Chimie de Coordination, CNRS, Toulouse, 31077, Fr.
SOURCE:	Inorganic Chemistry (1995), 34(6), 1514-23 CODEN: INOCAJ; ISSN: 0020-1669
PUBLISHER:	American Chemical Society
DOCUMENT TYPE:	Journal
LANGUAGE:	English

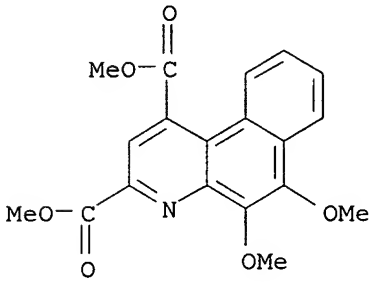
AB Four complexes, FeII(L2)2 (1), [FeII(L2)(Cl)(MeOH)2]2 (2), FeII(L3H2)2 (3), and FeIII(L4)2Cl·2(Et3N·HCl)·0.5MeCN (4),

wherein L2H, L3H3, and L4H are analogs of pyrroloquinolinequinone or methoxatin (PQQ), were synthesized and studied. 2 Crystallizes in the triclinic system, space group P.hivin.1, Z = 2, a 9.588(6), b 10.011(7), c 11.770(5) Å, α 96.66(5), β 99.21(5), and γ 107.93(7)°. The structure was solved by direct methods and refined to conventional agreement indexes R = 0.054 and Rw = 0.063 with 2683 unique reflections for which I > 3σ(I). The mol. structure of 2 consists of discrete [FeII(L2)(Cl)(MeOH)2] mols. associated into dimeric units through the carboxylate function of L2. The carboxylate O atoms of the two mols. constituting the dimeric unit bridge the metal centers affording a Fe···Fe' separation of 3.645(4) Å. The distorted coordination octahedron around each Fe(II) includes the pyridine N and carboxylate O atoms of L2, the chloride anion, and the O atom of two MeOH mols. The synthesis and IR, Moessbauer, and magnetic susceptibility studies of 1-4 evidence the variety of structural types and nuclearities obtained for Fe complexes of PQQ analogs, depending upon the stoichiometry and pH of the reactions. Complexes 1 and 3 (mononuclear) and 4 (polynuclear) were characterized by the 1:2 Fe:L ratio while complex 2 (dimer) was characterized by the 1:1 Fe:L ratio. Among the analogs used, those of the reduced form of PQQ chelate Fe through their tridentate site while chelation occurs preferentially at the quinonic site for the analog of the oxidized form of PQQ.

IT 161470-07-1P, 5,6-Dimethoxy-1,3-bis(methoxycarbonyl)benzo[f]quinoline
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and base hydrolysis of)

RN 161470-07-1 CAPLUS

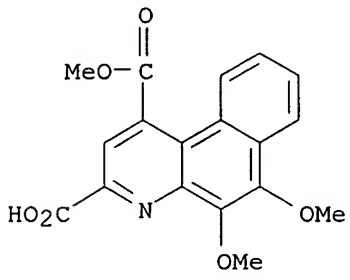
CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dimethoxy-, dimethyl ester (9CI) (CA INDEX NAME)



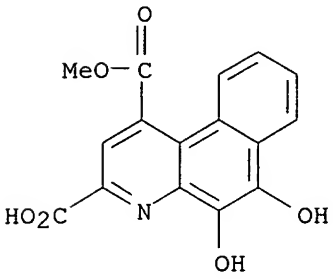
IT 161470-03-7P 161470-04-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and complexation with iron)

RN 161470-03-7 CAPLUS

CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dimethoxy-, 1-methyl ester (9CI) (CA INDEX NAME)



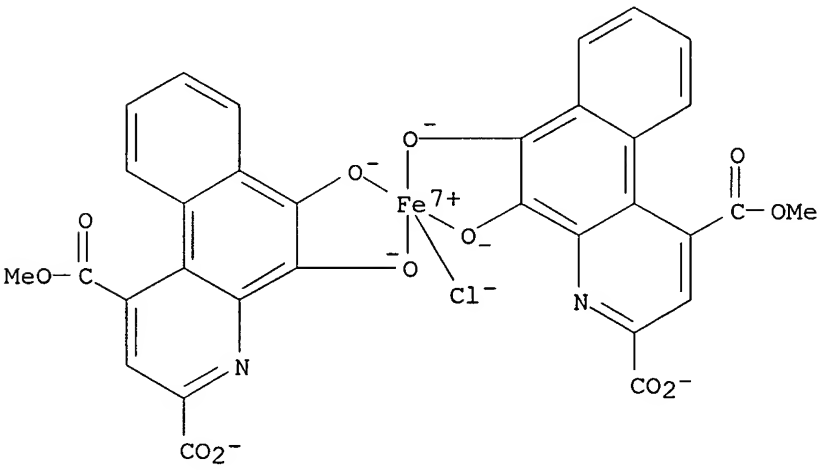
RN 161470-04-8 CAPLUS
CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dihydroxy-, 1-methyl ester (9CI) (CA INDEX NAME)



IT 161470-01-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and magnetic moment of)
RN 161470-01-5 CAPLUS
CN Iron, chlorobis[1-methyl 5,6-dihydroxybenzo[f]quinoline-1,3-dicarboxylato(3-)-O5,O6]-, compd. with N,N-diethylethanamine hydrochloride (1:2) (9CI) (CA INDEX NAME)

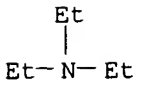
CM 1

CRN 161470-00-4
CMF C32 H16 Cl Fe N2 O12
CCI CCS



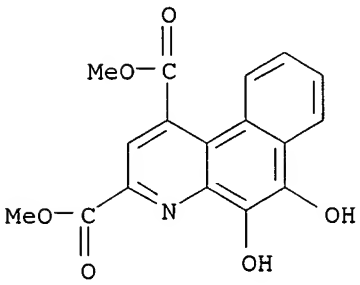
CM 2

CRN 554-68-7
CMF C6 H15 N . Cl H

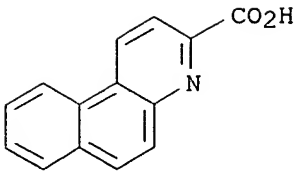


● HCl

IT 142422-23-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, protection, oxidation, base hydrolysis, and complexation with iron)
RN 142422-23-9 CAPLUS
CN Benzo[f]quinoline-1,3-dicarboxylic acid, 5,6-dihydroxy-, dimethyl ester (9CI) (CA INDEX NAME)

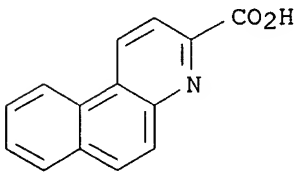


L10 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1957:900 CAPLUS
DOCUMENT NUMBER: 51:900
ORIGINAL REFERENCE NO.: 51:125h-i,126a
TITLE: 5,6-Benzoquinaldinic acid as an analytical reagent. I. Determination of thorium and zirconium
AUTHOR(S): Majumdar, Anil Kumar; Banerjee, Siddheswar
CORPORATE SOURCE: Coll. Eng. Tech., Bengal, Calcutta
SOURCE: Analytica Chimica Acta (1956), 14, 306-10
CODEN: ACACAM; ISSN: 0003-2670
DOCUMENT TYPE: Journal
LANGUAGE: English
AB cf. C.A. 48, 4358i, 5713b. 5,6-Benzoquinaldinic acid (I) ppts. Th quantitatively at pH 3.0 or greater to form the anhydrous compound Th(C14H8O2N)4 which can be weighed as such after drying at 110° or after washing with alc. and acetone, or which can be ignited to the oxide. The precipitation of Zr with I is quant. at pH values of 1.8 or greater, but the precipitate varies in composition, hence must be ignited to the oxide. Separation of Th and Zr from the rare earths is accomplished by simple precipitation from acid solution The tendency of Mg and the alkaline earths to coppt. is countered by the addition of NH4Cl.
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(formed therefrom, in titanium determination)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



(in analysis of Th and Zr, and compds. formed therefrom
(in titanium detn., and Ti deriv. formed therefrom

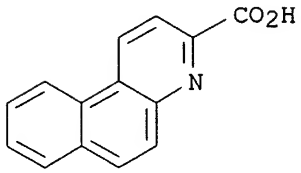
L10 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1955:83186 CAPLUS
DOCUMENT NUMBER: 49:83186
ORIGINAL REFERENCE NO.: 49:15612c-d
TITLE: 5,6-Benzoquinaldinic acid as an analytical reagent. V. Separation of cadmium from different elements
AUTHOR(S): Majumdar, Anil Kumar; De, Anil Kumar
CORPORATE SOURCE: Coll. Eng. Technol., Bengal, Calcutta
SOURCE: J. Indian Chem. Soc. (1955), 32, 85-8
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 48, 4358i. The reagent 5,6-benzoquinaldinic acid can be used for the estimation of Cd and for its separation from tartrate, phosphate, arsenate, vanadate, tungstate, molybdate, alkaline earths, Ag, Hg, Pb, Be, Th, Zr, U, rare earths, Fe, Al, Cr, Ti, Bi, Sb, and Sn either by the proper control of pH or by the use of complexing agents, such as thiourea and tartrate.
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(in cadmium determination)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



L10 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1954:31977 CAPLUS
DOCUMENT NUMBER: 48:31977
ORIGINAL REFERENCE NO.: 48:5713b-e
TITLE: Diphenylcarbazone as a colorimetric reagent for bivalent chromium
AUTHOR(S): Bose, Monisha
CORPORATE SOURCE: Univ. Coll. Sci., Calcutta
SOURCE: Science and Culture (1953), 19, 213-14
CODEN: SCINAL; ISSN: 0036-8156
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Diphenylcarbazone gives an intense red-violet coloration with Cr++ (C.A. 47, 10495a). This reaction is suitable for detecting and estimating Cr++. The addition of Cr++ to an excess of carbazone solution produces a deep red-violet coloration due to the formation of a chromous-carbazone inner-metallic complex. The complex has an absorption maximum at 540 mμ. The acidity of the solution influences the intensity of the color, but as the interference caused by many cations can be minimized by mineral acids in excess, it is necessary to have the solution 0.1N in acid in the presence of excess of the

reagent. The only interfering element is Hg, which gives a blue-violet coloration. This can be greatly reduced by the addition of NaCl. Chromate or any other oxidizing agent must be absent. As little as 0.1 γ per cc. can be detected this way. The chromous-carbazone system can also be used for the determination of Cr++. Since the presence of air interferes with the intensity of color, the exclusion of air during addition of $CrSO_4$ and subsequent color development is imperative. The color is stable for several hrs. The optical ds., however, should be measured almost immediately.

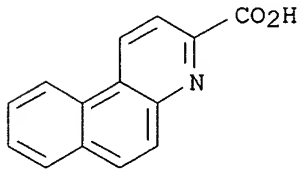
IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid (in analysis)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



L10 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1954:31976 CAPLUS
DOCUMENT NUMBER: 48:31976
ORIGINAL REFERENCE NO.: 48:5713b
TITLE: 5,6-Benzoquinaldinic acid as an analytical reagent
AUTHOR(S): Majumdar, Anil Kumar
CORPORATE SOURCE: Coll. Eng. Technol., Calcutta
SOURCE: Science and Culture (1953), 19, 265-6
CODEN: SCINAL; ISSN: 0036-8156
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C.A. 47, 2628c, 10398f; 48, 1195d. The reagent is used to detect Mg, Hg, and other elements.

IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid (in analysis)
RN 65714-31-0 CAPLUS
CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



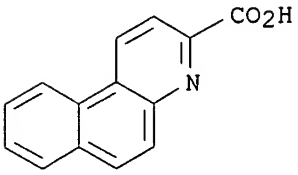
L10 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1953:61397 CAPLUS
DOCUMENT NUMBER: 47:61397
ORIGINAL REFERENCE NO.: 47:10398f-h
TITLE: 5, 6-Benzoquinaldinic acid as an analytical reagent. III. Estimation of zinc, cobalt, nickel, and manganese
AUTHOR(S): Majumdar, Anil Kumar; De, Anil Kumar
CORPORATE SOURCE: Coll. Eng. Technol., Bengal, Calcutta
SOURCE: J. Indian Chem. Soc. (1953), 30, 123-8
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C.A. 47, 2628c. The reagent 5, 6-benzoquinaldinic acid was used for the estimation of Zn, Co, Ni, and Mn, the study of the pH ranges over which they are accurately estimated and the effect of temperature on their salts. The points of incipient precipitation for the elements, Zn, Co, Ni, and Mn are at about pH 2.08, 2.14, 2.15 and 1.75, resp., and for their complete precipitation 2.85, 3.24, 3.00, and 2.90. The salts can be dried at 110-115° and weighed as the hydrated salts, e.g., Zn with 1 mole of H2O, Co with 2, and both Ni and Mn with 2.5 moles of H2O. The Co salt can also be dried at 150-155° and weighed as the anhydrous salt.

IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(and salts, in analytical chemistry)

RN 65714-31-0 CAPLUS

CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



L10 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1953:15170 CAPLUS

DOCUMENT NUMBER: 47:15170

ORIGINAL REFERENCE NO.: 47:2628b-d

TITLE: 5,6-Benzoquinaldinic acid as an analytical reagent. II. Estimation of cadmium and its separation from copper

AUTHOR(S): Majumdar, Anil Kumar; De, Anil Kumar

CORPORATE SOURCE: Coll. Eng. Technol., Calcutta

SOURCE: J. Indian Chem. Soc. (1952), 29, 499-506

DOCUMENT TYPE: Journal

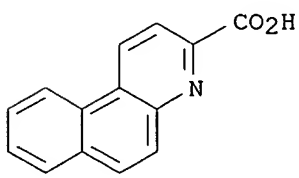
LANGUAGE: Unavailable

AB cf. ibid. 255-62. Cd is completely precipitated with 5, 6-benzoquinaldinic acid (I) from solns. of pH 3.12-9.40. The precipitate formed below pH 3.85 has the formula Cd(C14H8NO2)2.1.5 H2O when dried at 105-110°; this loses H2O at 122°, forming the anhydrous salt, which is stable up to 269°. If the pH is above 3.85, the salt retains excess H2O which can only be removed by drying at 170-175°, and in addition the precipitate is less crystalline and less well adapted to filtration and washing. For the determination of Cd in the presence of Cu, the Cu is first precipitated with I at pH 1.15-1.85, then the filtrate is brought to pH 3.12-3.85 for the precipitation of Cd.

IT 65714-31-0, Benzo[f]quinoline-3-carboxylic acid
(in cadmium determination)

RN 65714-31-0 CAPLUS

CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



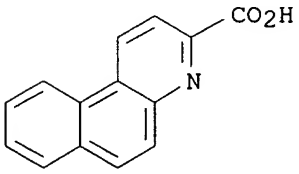
L10 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1949:38498 CAPLUS
DOCUMENT NUMBER: 43:38498
ORIGINAL REFERENCE NO.: 43:6935c-e
TITLE: 5,6-Benzoquinaldic acid as an analytical reagent
AUTHOR(S): Mallik, Ajit Kumar; Mazumdar, Anil Kumar
SOURCE: Science and Culture (1949), 14, 477-8
CODEN: SCINAL; ISSN: 0036-8156
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Practically all bivalent metals are precipitated by 5,6-benzoquinaldic acid. Cu gives a light green crystalline precipitate, Cd, Co, Ni, Mg, Ca, Sr, Ba, Zn, Mn, Ag, Hg, and Pb give white ppts. The Cu salt is sparingly soluble in dilute mineral acid and AcOH, soluble in concentrated acid, excess NH4OH, and CN- solution Ba, Ca, and Sr salts are soluble in hot water. Zn, Mn, Ag, Cd, Co, and Ni salts are soluble in CN- solution The Pb and Hg salts are soluble in NH4OAc. The reagent can be used in the determination of Cu. The composition of the Cu salt, dried at 110-20°, is C14H8NO2Cu.11/2H2O. The Fe++ salt is red, dissolves in CN- solution, and the intensity of the color of this solution varies with Fe++ concentration; this suggests the use of 5,6-benzoquinaldic acid in the colorimetric determination of Fe.

IT 65714-31-0, 5,6-Benzoquinaldic acid
(in analysis)

RN 65714-31-0 CAPLUS

CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



L10 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1935:19788 CAPLUS
DOCUMENT NUMBER: 29:19788
ORIGINAL REFERENCE NO.: 29:2536i,2537a-g
TITLE: Action of cyanogen iodide on quinolines
AUTHOR(S): Mumm, Otto; Bruhn, Christian
SOURCE: Berichte der Deutschen Chemischen Gesellschaft [Abteilung] B: Abhandlungen (1935), 68B, 176-83
CODEN: BDCBAD; ISSN: 0365-9488
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB BrCN and HCN acting simultaneously at room temperature in ether on quinoline (I) give the so-called quinoline dicyanide, C9H7N(CN)2, which shows an interesting isomerism phenomenon (C. A. 29, 1821.7.). ClCN behaves like BrCN. The present work with ICN was undertaken in the hope of shedding light on the isomerism but ICN was found to act entirely differently. The course of the reaction is not influenced by the presence or absence of HCN, and the product, I. ICN, is of an entirely different character. It is completely stable toward water and even toward KCN or HCN; the reaction takes place with equal ease with all quinolines, even when they are α-or o-substituted; the products give no precipitate with AgNO3 in dilute HNO3, and no I or CN ion can be detected after long shaking in aqueous

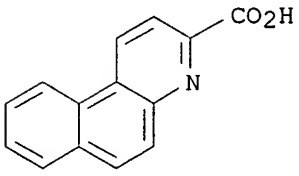
suspension with BaCO3 or saturated NaHCO3; the compds. are insol. in water but easily soluble in dilute acids. The quinoline component can, however, easily be removed by means of all substances which form difficultly soluble ppts. with I (picric acid, HClO4, tartaric acid, Hg(CN)2) either in alc. or in ether. Concentrated HCl gives the compound I.ICl.HCl (II), m. 118° (Dittmar, Ber. 18, 1613(1885)), and HBr and HI yield the corresponding compds., also all long since known. II is formed either from the dry I.ICN with concentrated aqueous or alc. HCl in the cold or in benzene with HCl gas.

The earlier workers failed to observe that when II is recrystd. from AcOEt it is partly converted into a new compound insol. in AcOEt (when II is heated above 100° the conversion is quant.) which m. 123° and is bimol., II.I.HCl (III); on recrystn. from dilute HCl it regenerates II, but from aqueous alc. it seps. as I.ICl, m. 157° (which is also formed directly from II by long shaking with an aqueous suspension of BaCO3, with cold saturated NaHCO3, or with much cold water). Both of these compds., like I.ICN, give a precipitate of quinoline picrate with picric acid. With NH3 in cold water, II gives C9H7NI.HI, m. 90-1°. All the above properties of I.ICN are best explained by assigning to it a structure similar to that of the complex metal-am-monia compds. The following compds. of the type I.ICN were prepared: Quinoline, m. 104°; p-toluquinoline, m. 55-6°; quinaldine, m. 98°; α-naphthoquinoline, m. 116-17°; the corresponding compds. of the type II (quinolinium dichloroiodides), obtained from the above with concentrated HCl, m. 118-20°, 146-8°, 112-13°, 166°, and at 100° change into the compds. III (quinolinium trichloroiodides), m. 123°, -, 148-9°, 194-5°. In an attempt to effect an isomerization such as had been Observed with the BrCN compds., β-naphthoquinoline-ICN was slowly heated to 130° whereupon a very vigorous reaction set in, yielding a bimol. compound rich in I which, on boiling with NaOH and subsequent treatment with 50% AcOH, gave β-naphthoquinoline-α-carboxylic acid, m. 188-90°.

IT 65714-31-0, 5,6-Benzoquinoline-3-carboxylic acid
(preparation of)

RN 65714-31-0 CAPLUS

CN Benzo[f]quinoline-3-carboxylic acid (6CI, 7CI, 9CI) (CA INDEX NAME)



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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	91.74	323.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.50	-7.50

STN INTERNATIONAL LOGOFF AT 11:23:10 ON 11 SEP 2006